

**A B S T R A C T****Title: METHODS**

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This invention relates to polymorphisms in the human prostaglandin E2 receptor 1 (EP1-R) gene and corresponding novel allelic polypeptides encoded thereby. Fourteen specific polymorphisms are identified. The invention also relates to methods and materials for analysing allelic variation in the EP1-R gene and to the use of said polymorphism in the

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diagnosis and treatment of EP1-R ligand mediated diseases, such as cancer or arthritis.